



STIC Search Report

EIC 3700

STIC Database Tracking Number 158692

TO: Patricia Martin
Location: RND 8a40
Art Unit: 3700
Thursday, June 16, 2005

Case Serial Number: 10/722168

From: Terry Solomon
Location: EIC 3700
RND 8b31
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Search Notes

No current or past litigation found involving US pat. 6321776.

Sources:

Lexis/Nexis
Questel-Orbit

556208 (09) 6321776 November 27, 2001

Time of Request: June 15, 2005 11:17 AM EDT

Research Information:

Utility, Design and Plant Patents
patno=6321776

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

6321776

November 27, 2001

Double diaphragm precision throttling valve

REISSUE: November 25, 2003 - Reissue Application filed Ex. Gp.: 3753; Re. S.N. 10/722,168 (O.G. January 18, 2005)

APPL-NO: 556208 (09).

FILED-DATE: April 24, 2000

GRANTED-DATE: November 27, 2001

LEGAL-REP: Nelson, Gregory J.

Selected file: PLUSPAT
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Comprehensive Worldwide Patents database

**** SS 1: Results 1**
PRT SS 1 MAX 1 LEGALALL

1 / 1 PLUSPAT - @QUESTEL-ORBIT - image
Patent Number :
US6321776 B1 20011127 [US6321776]
Title :
(B1) Double diaphragm precision throttling valve
Inventor(s) :
(B1) KOLARIK WILLIAM MICHAEL (US); PRATT WAYNE L (US)
Application Nbr :
US55620800 20000424 [2000US-0556208]
Priority Details :
US55620800 20000424 [2000US-0556208]
Intl Patent Class :
(B1) F16K-031/44
EPO ECLA Class :
F16K-007/14
US Patent Class :
ORIGINAL (O) : 137312000; CROSS-REFERENCE (X) : 251331000
Document Type :
Basic
Citations :
US4901751; US5002086
Publication Stage :
(B1) U.S. Patent (no pre-grant pub.) after Jan. 2, 2001
Abstract :
A throttling valve assembly actuated by a stepper motor having a double diaphragm seal and integral throttling surface. The throttling surface interfaces to a mating orifice and port arrangement to provide a smooth control regime for various process fluids. Because of the unique design of the flow paths the fluids will remain in a laminar flow state throughout the throttling range, thus providing smooth and continuous response to the control input. The valve opening to the fluid controlled by a stepper motor through a direct drive mechanism. The embodiment shown here employs all PTFE construction for the wetting parts, but any material could be used that would be compatible with the process fluid. Additional features are minimal capture of the process fluid, free draining, and no metallic parts in close communication with the process fluid.
Update Code :
2001-49

1 / 1 LGST - @EPO
Patent Number :
US6321776 B1 20011127 [US6321776]
Application Number :
US55620800 20000424 [2000US-0556208]
Action Taken :
20050118 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20031125
Update Code :
2005-05

1 / 1 CRXX - ©CLAIMS/RRX

Patent Number :

6,321,776 A 20011127 [US6321776]

Patent Assignee :

Kolarik, William Michael; Pratt, Wayne L

Actions :

20031125 REISSUE REQUESTED

ISSUE DATE OF O.G.: 20050118

REISSUE REQUEST NUMBER: 10/722168

EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 3753

Reissue Patent Number:

Session finished: 15 JUN 2005 Time 18:23:13

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